

SITE PLAN/SAMPLE LOCATIONS

EPMI
4th & GAMBELL
ANCHORAGE, ALASKA

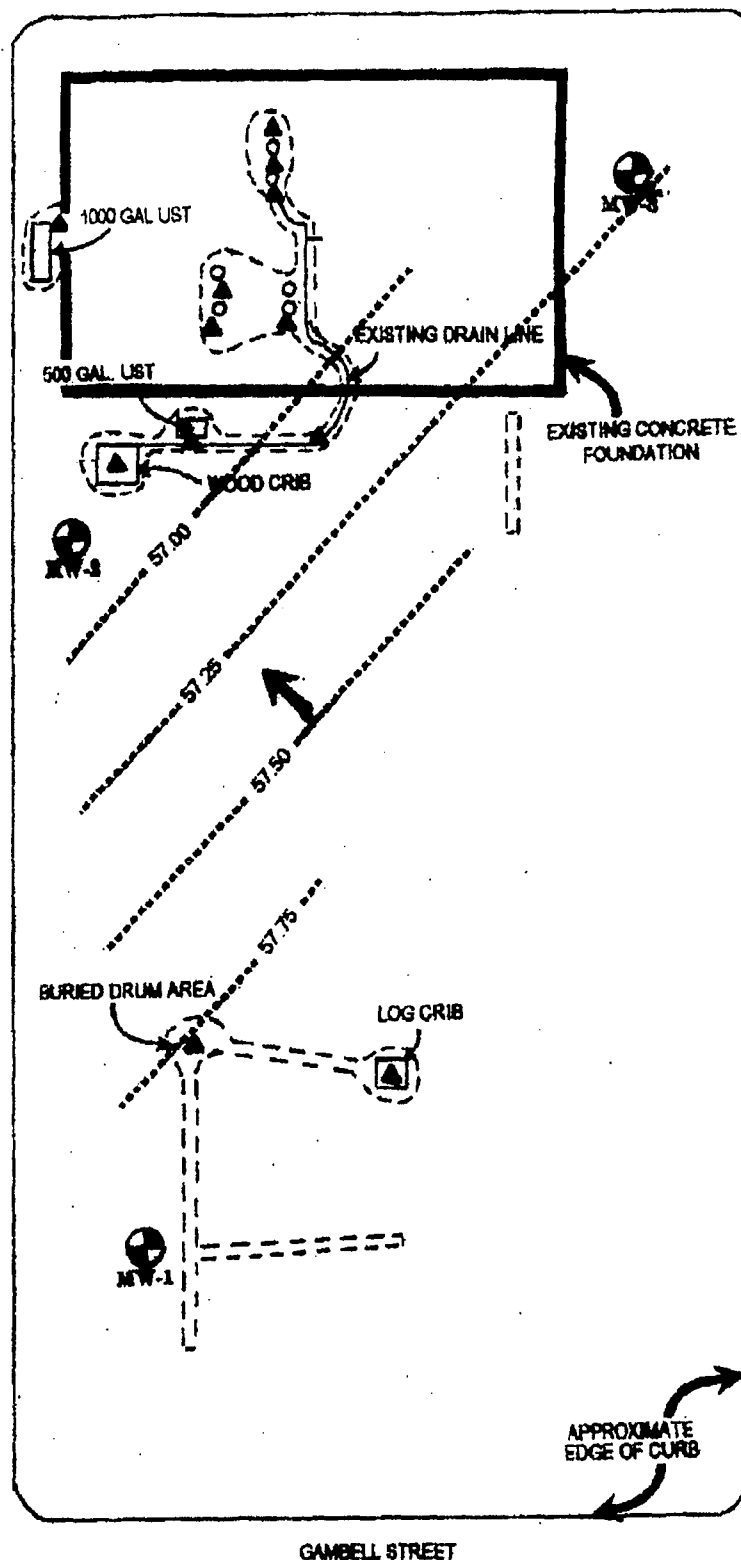
FIGURE 2

**SCALE**

1 INCH = 40ft. (approx.)

LEGENDMONITORING WELL NUMBER
AND APPROXIMATE LOCATIONGROUNDWATER POTENTIOMETRIC
SURFACE CONTOUR AND APPROXIMATE
RELATIVE ELEVATION IN FEETINFERRED GROUNDWATER
MIGRATION DIRECTIONINDICATES APPROXIMATE AUGUST 1997
LIMITS OF EXCAVATION AND/OR TRENCHINDICATES APPROXIMATE AUGUST 1997
SOIL SAMPLE LOCATIONSINDICATES APPROXIMATE LOCATION
OF HYDRAULIC LIFT

Elevations are relative to the project datum located on
the northwest anchor bolt on the light post at the south-
east corner of the site with an assigned elev. of 100.00ft.



**QUALITY
ENVIRONMENTAL
SAMPLING**

SITE PLAN/SAMPLE LOCATIONS

**EPMI
4th & GAMBELL
ANCHORAGE, ALASKA**

FIGURE 3

APPENDIX C

SAMPLE RESULTS TABLES

TABLE 1 - HYDROCARBON CONTENT IN SOIL			
SAMPLE IDENTIFICATION	PID Reading	AK102 ANALYSIS (parts per million)	AK103 ANALYSIS (parts per million)
S1 - Break in Piping 8' bgs	143	-----	253
S8 - Between Hydro Lift 11' bgs	24.3	-----	4,830
S9 - East Side Hydro Lift 7' bgs	24.6	-----	ND
S10 - West Side Hydro Lift 9' bgs	10.2	-----	ND
S12 - Hydro Reservoir 9' bgs	467	-----	ND
S13 - Between Hydro Lift 10' bgs	138	-----	2,660
S14 - Below Hydro Piping 9' bgs	201	-----	ND
S7 - Below 500 gal UST 7' bgs	111	223	-----
S11 - Below 1,000 gal UST 9' bgs	2,000	ND	-----
MW-1 S-2 - Well 1 at 35' bgs	156	-----	16

TABLE 2 - VOLATILE ORGANIC COMPOUNDS IN SOIL

ANALYTE	S3	S4	S5	S6
n-Butylbenzene	ND	19,800 ppb	ND	ND
sec-Butylbenzene	ND	15,600 ppb	ND	ND
cis-1,2-Dichloroethylene	ND	800 ppb	ND	ND
Ethylbenzene	ND	5,500 ppb	ND	ND
Isopropylbenzene	ND	2,900 ppb	ND	ND
p-Isopropyltoluene	ND	102,000 ppb	ND	ND
Naphthalene	ND	8,000 ppb	ND	ND
Tetrachloroethylene	ND	4,500 ppb	3,200 ppb	1,000 ppb
Toluene	ND	9,000 ppb	ND	ND
1,2,4-Trimethlybenzene	ND	178,000 ppb	ND	ND
1,3,5-Trimethlybenzene	ND	49,500 ppb	ND	ND
Total Xylenes	ND	52,000 ppb	ND	ND

*Reported in Parts Per Billion (ppb)

TABLE 3 - METAL ANALYSIS IN SOIL (ppm)					
ANALYTE	S1	S3	S4	S6	MW-1 S-2 TCLP
Ag - Silver	ND	ND	1	ND	
As - Arsenic	3	1	9	7	ND
Ba - Barium	19.0	153	753	2.3	-----
Cd - Cadmium	ND	ND	20	ND	ND
Cr - Chromium	11	10	27	8	ND
Hg - Mercury	ND	ND	0.14	0.15	-----
Pb - Lead	4	4	996	4	ND
Se	ND	ND	ND	ND	-----

TABLE 4 - MONITORING WELL ANALYSIS				
ANALYTE	MW-1 (Water)	MW-1 S-2 TCLP (Soil)	MW-2 (Water)	MW-3 (Water)
TPH (Soil)	-----	16 ppm	-----	-----
TPH (Water)	ND	-----	ND	-----
As - Arsenic	ND	ND	ND	-----
Cd - Cadmium	ND	ND	ND	-----
Cr - Chromium	ND	ND	ND	-----
Pb - Lead	ND	ND	ND	-----
Tetrachloroethylene	4,250 ppb	2,200 ppb	ND	ND
Other VOCs	ND	ND	ND	ND

APPENDIX G

ADEC MATRIX SHEET

ADEC SOIL CLEANUP LEVEL MATRIX TABLE

SITE CHARACTERISTIC	POSSIBLE SCORE	SCORE		
1. Depth to Subsurface < 5 feet 5 to 15 feet 15 to 25 feet 25 to 50 feet > 50 feet	(10) (8) (6) (4) (1)	4		
2. Mean Annual Precipittion > 40 inches 25 to 40 inches 15 to 25 inches < 15 inches	(10) (5) (3) (1)	5		
3. Soil Type (Unified Soil Classification) Clean, coars-grained soils Coarse-grained soils with fines Fine-grained sils (low organic content) Fined-grained soils (high organic content)	(10) (8) (3) (1)	8		
4. Potential Receptors Public Well within 1,000 feet or Private well(s) within 500 feet Municipal/private well within ½ mile Municipal/private well within 1 mile No known well within ½ mile No known well within 1 mile Non-potable groundwater	(15) (12) (8) (6) (4) (1)	12		
5. Volume of Contaminated Soil >500 cubic yards 100 to 500 cubic yards 25 to 100 cubic yards >De Minimis to 25 cubic yards De Minimis	(10) (8) (5) (2) (0)	8		
Matrix Score 37	Cleanup Level in mg/kg			
	Diesel Range	Gasoline Range	Benzene	BTEX
Category A >40	100	50	0.1	10
Category B 27 to 40	200	100	0.5	15
Category C 21 to 26	1,000	500	0.5	50
Category D < 20	2,000	1,000	0.5	100

APPENDIX H

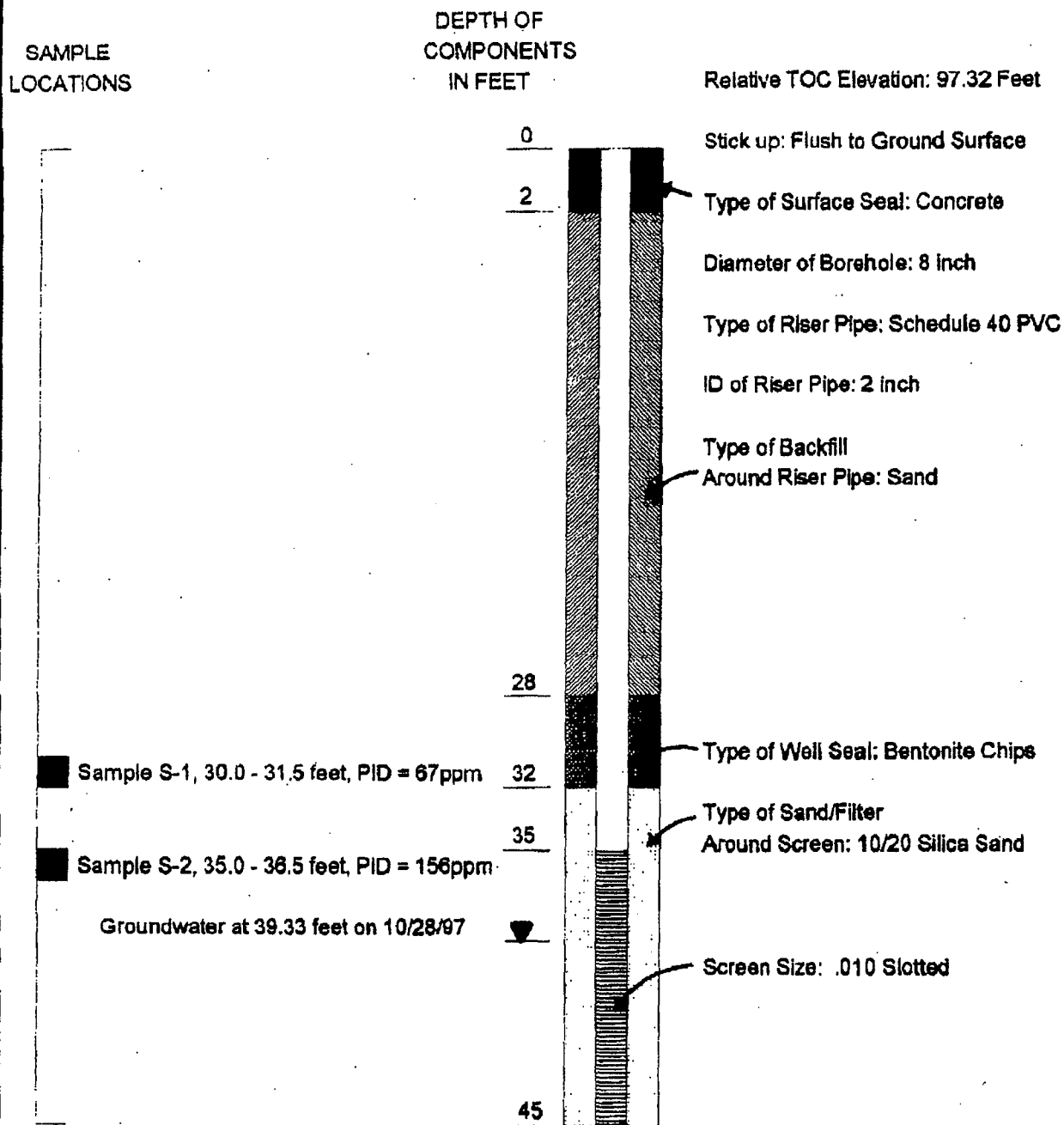
MONITORING WELL REPORTS

Quality Environmental Sampling

MONITORING WELL INSTALLATION REPORT

Project Name: EPMI 4th & Gambell
Project Location: Anchorage, Alaska
Installation Date: October 21, 1997

Well No.: MW-1
Drilling Method: Mobile B-61, 8 in. Hollow Stem Auger
Observer: Cliff Morrison, QES



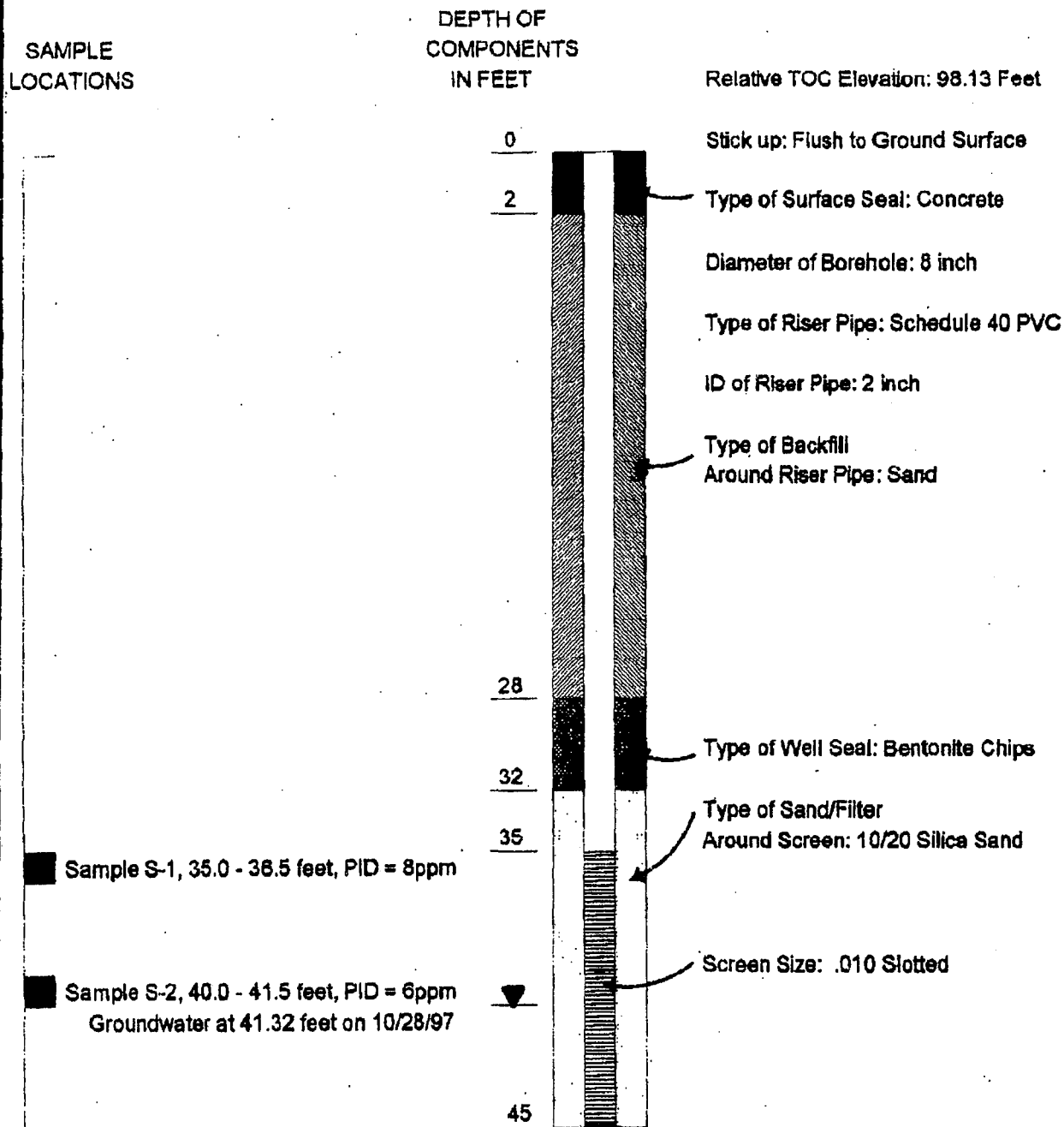
Remarks:

Quality Environmental Sampling

MONITORING WELL INSTALLATION REPORT

Project Name: EPMI 4th & Gambell
Project Location: Anchorage, Alaska
Installation Date: October 21, 1997

Well No.: MW-2
Drilling Method: Mobile B-61, 8 in. Hollow Stem Auger
Observer: Cliff Morrison, QES



Remarks:

Quality Environmental Sampling

MONITORING WELL INSTALLATION REPORT

Project Name: EPMI 4th & Gambell
Project Location: Anchorage, Alaska
Installation Date: October 22, 1997

Well No.: MW-3
Drilling Method: Mobile B-61, 8 in. Hollow Stem Auger
Observer: Cliff Morrison, QES

SAMPLE
LOCATIONSDEPTH OF
COMPONENTS
IN FEET

Relative TOC Elevation: 97.77 Feet

Stick up: Flush to Ground Surface

0

2

Type of Surface Seal: Concrete

Diameter of Borehole: 8 inch

Type of Riser Pipe: Schedule 40 PVC

ID of Riser Pipe: 2 inch

Type of Backfill
Around Riser Pipe: Sand

28

Type of Well Seal: Bentonite Chips

32

Type of Sand/Filter
Around Screen: 10/20 Silica Sand

35

Screen Size: .010 Slotted

Groundwater at 40.56 feet on 10/28/97

45

Remarks:

Groundwater Monitoring and Sampling Record

Facility Number: EDMI
 Street Address: 4th & Gambell
 City, State: ANCHORAGE, ALASKA

Sampling Personnel: CLIFF MORRISON / PAT STIDMAN

Monitor Well Number	MW-3	MW-2	MW-1					
General Data								
Well Accessible (Y/N)	Y	2	2					
Well Diameter	2"	2	2					
Depth to bottom of Well (ft) (From MP)	44.8	44.8	44.2					
Height of Water Column in Well (ft)	~4.5	~4	~5					
Liquid Hydrocarbon or Sheen (Y/N)	N	N	N					
Depth to Water (hold/cut)	40.47	41.35	39.26					
Depth to Hydrocarbon (hold/cut)	NA	NA	NA					
Measurement Date and Time	10/26/97 1015	2 1025	2 1040					
Well Purging Data								
Purging Technique	BAILER	2	2					
Gallons Purged	~2.5	~2.5	~2.5					
Casing Volumes Purged *	3	3	3					
Well Sampling Data								
Sample ID on C.O.C.	MW-3	MW-2	MW-1					
Sampling Date	10/26/97	2	2					
Sampling Time	1300	1320	1340					
Sampling Technique	BAILER	2	2					
Sample Preservation	He/Se	2	2					
Observations								
Sheen (Y/N)	N	N	N					
Odor (Y/N)	*	*	*					

Comments

* NO ODOR OBSERVATION MADE

10/28/97 "DEPTH TO WATER" 1/SMT.⁵
 MW-1 = 39.33'
 MW-2 = 41.32'
 MW-3 = 40.56'

NOTE: All measurements should be referenced from top of casing at surveyed measuring point, unless otherwise documented on this form.

* In general, three casing volumes should be removed or the well should be allowed to recover to at least 60% of the pre-purge static before sampling.